

## ABSTRACT

5 A novel method and apparatus for controlling forward link power when an  
intergenerational soft handoff is performed in CDMA communication system is  
disclosed. The forward link power control method and apparatus of the present  
invention determines acceptable forward link power levels for a selected target base  
station during intergenerational soft handoff (ISHO) procedures. The method and  
apparatus of the present invention controls the forward link power for the selected  
target base station during an ISHO procedure. Open loop and slow forward power  
10 control embodiments of the present invention rely upon an observation that  
information regarding a mobile station serving forward traffic channel can be  
communicated to the selected target base station using an MSC. In another  
embodiment, a statistical value can be used to determine a forward link transmit  
power of a selected target base station. The RTC demodulation embodiment controls  
15 forward link transmit power of a target base station by directly demodulating an RTC  
or FPCC of a mobile station and obtaining power control commands. The method and  
apparatus of the present invention improves the performance, increases the Quality of  
Service (QoS), and improves the capacity of CDMA communication systems during  
complete intergenerational handoff procedures.